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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: [year=2007; month=12; day=14; hr=9; min=36; sec=7; ms=123; ]

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Application No: 10644027 Version No: 2.0

**Input Set:****Output Set:**

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**Finished:** 2007-11-26 17:58:59.266  
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**No. of SeqIDs Defined:** 20  
**Actual SeqID Count:** 20

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**Input Set:**

**Output Set:**

**Started:** 2007-11-26 17:58:56.694  
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Error code

Error Description

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# SEQUENCE LISTING

<110> Pavlakis, George N.

The Government of the United States of America  
as represented by The Secretary of the  
Department of Health and Human Services

<120> Molecular Clones With Mutated HIV gag/pol, SIV gag and  
SIV env Genes

<130> 015280-257300US

<140> 10644027

<141> 2003-08-19

<150> US 60/173,036

<151> 1999-12-23

<150> WO PCT/US00/34985

<151> 2000-12-22

<150> US 09/872,733

<151> 2001-06-01

<160> 20

<170> PatentIn Ver. 2.1

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<223> Description of Artificial Sequence:mutated HIV-1  
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<213> Artificial Sequence

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gaccatgta tggccaaatg cccagacaga caggcgggtt ttttaggcct tgggtccatg 1320
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ccccagagg acccagctgt ggatctgcta aagaactaca tgcagttggg caagcagcag 1440
agagaaaagc agagagaaag cagagagaag cttacaagg aggtgacaga ggatttgctg 1500
cacctcaatt ctctctttg aggagaccag tag 1533
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<210> 5

<211> 1533

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:consensus  
sequence of mutated SIVgagDX and wild type  
Simian (macaque) immunodeficiency virus  
isolate 239, clone lambda siv 239-1 in Fig. 4

<400> 5

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ttagatagat ttggattagc agaaagcctg ttggagaaca aagaaggatg tcaaaaaata 180
ctttcgggtct tagctccatt agtgccaaca ggctcagaaa atttaaaaag cttttataat 240
actgtctgcg tcattctggtg cattcacgca gaagagaaaag tgaaacacac tgaggaagca 300
aaacagatag tgcagagaca cctagtgggtg gaaacaggaa cmacmgaaac yatgccraar 360
acmwstmgac caacagcacc atctagcggc agaggaggaa aytaccaggt acarcaratm 420
gggtggttaact aygtccacct gccaytrwsc ccgagaacmy traaygcytg ggtmaarytg 480
atmgaggara agaarttygg agcagaagta gtgccaggat tycaggcact gtcagaaggt 540
tgcaccccct aygacatyaa ycagatgytr aaytgygk gagaccatca rgcggtatg 600
cagatyatcm gwgayatyat maacgaggag gctgcagatt gggacttgca gcaccacaa 660
ccagctccac aacaaggaca acttagggag ccgtcaggat cagayatygc aggaacmacy 720
wsytcagtwg aygaacarac ccagtggatg tacmgwcarc agaaccsat mccagtaggc 780
```



```

aacatytacm gkmgatggat ccarctgggk ytgcaraart gygtymgwat gtayaacccr 840
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gcagcccaac agaggggacc aagaaagcca attaatgtgt ggaattgtgg gaaagaggga 1200
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agagaaaagc agagagaaag cagagagaag cttacaagg aggtgacaga ggatttgctg 1500
cacctcaatt ctctctttgg aggagaccag tag 1533

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<210> 6

<211> 8366

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:packaging  
construct pCMVgagpolBNkan

<400> 6

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ggtcattagt tcatagccca tatatggagt tccgcgttac ataacttacg gtaaattggc 180
cgcttggtg accgccaac gacccccgcc cattgacgtc aataatgacg tatgttccca 240
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cccacttggc agtacatcaa gtgtatcata tgccaagtac gcccctatt gacgtcaatg 360
acggtaaatg gcccgcctgg cattatgccc agtacatgac cttatgggac tttcctactt 420
ggcagtacat ctacgtatta gtcacgcta ttaccatggg gatgcggttt tggcagtaca 480
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ccgccccatt gacgcaaatg ggcggtag

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